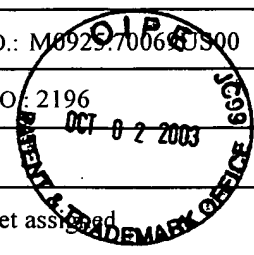


FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 09/743,859		ATTY. DOCKET NO.: M0929.70066US00	
				FILING DATE: January 16, 2001		CONFIRMATION NO: 2196	
				APPLICANT: Richard R. Schrock et al.			
				GROUP ART UNIT: 1713		EXAMINER: Not yet assigned	
Sheet	1	of	2				



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U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
F	1.	4,654,462		Basset et al.	03-31-1987
	2.	4,681,956		Schrock	07-21-1987
	3.	5,516,953		Feldman et al.	05-14-1996
	4.	5,639,900		Bell et al.	06-17-1997
	5.	5,675,051		Chauvin et al.	10-07-1997
	6.	5,739,396		Trost et al.	04-14-1998
	7.	5,747,409		Commereuc	05-05-1998
	8.	5,750,815		Grubbs et al.	05-12-1998
	9.	6,121,473		Schrock et al.	09-19-2000
F	10.	6,346,652	B1	Schrock et al.	02-12-2002

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
F	11.	WO	99/42469	A1	Massachusetts Institute of Technology	08-26-1999	
F	12.	WO	00/02834	A1	Massachusetts Institute of Technology	01-20-2000	

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
F	13.	ALEXANDER et al., "Catalytic enantioselective ring-closing metathesis by a chiral biphen-mo complex," <i>J. Am. Chem. Soc.</i> , 1998, vol. 120, no. 16, pp. 4041-4042	
	14.	BAO et al., "Synthesis, resolution and determination of absolute configuration of a vaulted 2,2'-binaphthol and a vaulted 3,3'-biphenanthrol (VAPOL)," <i>J. Am. Chem. Soc.</i> , 1996, vol. 118, no. 14, pp. 3392-3405	
	15.	ELIEL et al., "Stability of cyclic molecules" in <i>Stereochemistry of Organic Compounds</i> , 1994, Chap. 11.3.b-11.3.d, pp. 678-685, John Wiley & Sons, New York	
	16.	FU et al., "Synthesis of nitrogen heterocycles via catalytic ring-closing metathesis of dienes", <i>J. Am. Chem. Soc.</i> , 1992, vol. 114, no. 18, pp. 7324-7325	
	17.	FU et al., "The application of catalytic ring-closing olefin metathesis to the synthesis of unsaturated oxygen heterocycles", <i>J. Am. Chem. Soc.</i> , 1992, vol. 114, pp. 5426-5427	
	18.	FUJIMURA et al., "Asymmetric ring-closing metathesis: kinetic resolution catalyzed by a chiral molybdenum alkylidene complex", <i>J. Am. Chem. Soc.</i> , 1996, vol. 118, no. 10, pp. 2499-2500	
	19.	FUJIMURA et al., "The synthesis of cyclic enol ethers via molybdenum alkylidene-catalyzed ring-closing metathesis", <i>J. Org. Chem.</i> , 1994, vol. 59, no. 15, pp. 4029-4031	
	20.	FUJIMURA et al., "Synthesis of new chiral ligands and their group VI metal alkylidene complexes", <i>Organometallics</i> , 1996, vol. 15, no. 7, pp. 1865-1871	
	21.	FURSTNER, A., "Recent advancements in ring closing olefin metathesis", <i>Topics in Catalysis</i> , 1997, vol. 4, pp. 285-299	
	22.	HEPPERT et al., "Asymmetric alkylidene and oxo complexes of tungsten (VI)", <i>Organometallics</i> , 1993, vol. 12, no. 7, pp. 2565-2572	
	23.	HULTZSCH et al., "The First Polymer-Supported and Recyclable Chiral Catalyst for Enantioselective Olefin Metathesis" <i>Angew Chem. Int. Ed.</i> (2002), 41(4), pp. 589-593.	

Paul F. Hultsch
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Serial No.: 09/743,859

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Examiner's Initials	Cite No.	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
F	24.	LA et al., "Mo-catalyzed asymmetric synthesis of dihydrofurans. catalytic kinetic resolution and enantioselective desymmetrization through ring-closing metathesis", <i>J. Am. Chem. Soc.</i> , 1998, vol. 120, no. 37, pp. 9720-9721	
	25.	MARTINEZ, L.E., "Highly enantioselective ring opening of epoxides catalyzed by (salen)cr(III) complexes", <i>J. Am. Chem. Soc.</i> , May 31, 1995, vol. 117, no. 21, pp. 5897-5898	
	26.	MCCONVILLE et al., "Synthesis of chiral molybdenum ROMP initiators and all-cis highly tactic poly(2,3- R2 norbornadiene) (R = CF3 or CO2ME)", <i>J. Am. Chem. Soc.</i> , 1993, vol. 115, no. 10, pp. 4413-4414	
	27.	O'DELL et al., "Polymerization of enantiomerically pure 2,3-dicarboalkoxynorbornadienes and 5,6-disubstituted norbornenes by well-characterized molybdenum ring opening metathesis polymerization initiators. direct determination of tacticity in cis, highly tactic and trans, highly tactic polymers", <i>J. Am. Chem. Soc.</i> , 1994, vol. 116, no. 8, pp. 3414-3423	
	28.	SCHROCK et al., "Exploring factors that determine cis/trans structure and tacticity in polymers prepared by ring-opening metathesis polymerization with initiators of the type syn- and anti-Mo (NAr)(CHCMe2Ph)(OR)2. Observation of a temperature-dependent cis/trans ratio", <i>Macromolecules</i> , 1995, vol. 28, pp. 5933-5940	
	29.	SCHUSTER et al., "Olefin metathesis in organic chemistry", <i>Angew. Chem. Int. Ed. Engl.</i> , 1997, vol. 36, pp. 2037-2056	
F	30.	TOTLAND et al., "Ring opening metathesis polymerization with binaphtholate or biphenolate complexes of molybdenum", <i>Macromolecules</i> , 1996, vol. 29, no. 19, pp. 6114-6125	
	31.	XU et al., "Applications of zr-catalyzed carbomagnesation and mo-catalyzed macrocyclic ring closing metathesis in asymmetric synthesis. Enantioselective total synthesis of sch 38516 (fluvirucin B1)", <i>J. Am. Chem. Soc.</i> , 1997, vol. 119, no. 43, pp. 10302-10316	

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